

**TOP SECRET**

OUT 50854

**TOP SECRET 251703Z**25 MAR 1963  
25X1HFS ☒  
CS ☒  
ACL ☒  
CFC ☒  
FILE ☒

1. HOW ACCURATE MUST ORIENTATION OF PAN CAMERA BE DETERMINED? ACCOMPANING THE EPHEMERIS IS A STATEMENT BY  THAT LAT AND LONG IS ACCURATE TO ABOUT ONE NM OR ONE MIN OF ARC. REDUCTION OF STELLAR PHOTOGRAPHY DETERMINES YAW PITCH AND ROLL TO AN ACCURACY LIMITED ONLY BE THE ACCURACY OF THE EPHEMERIS.  HAS PRECISION COORDINATE MEASURING COMPARATORS CAPABLE OF EXPLOITING THE POTENTIAL OF THE L SYSTEM AND IS IN THE PROCESS OF ACQUIRING A PRECISE POINT TRANSFER DEVICE FOR TRANSFER OF POINTS FROM INDEX TO PAN PHOTOGRAPHY.  IS ATTEMPTING TO REDUCE ALL ERRORS TO A MINIMUM. THUS EVERY EFFORT SHOULD BE MADE TO APPROACH ONE MIN ORIENTATION ACCURACY.

25X1

25X1

25X1

2. HOW ACCURATE CAN ORIENTATION BE TRANSFERRED FROM S/I TO PAN IMAGERY? TO DATE NO USUABLE STELLAR IMAGERY HAS BEEN AVAILABLE FOR ORIENTATION DETERMINATION. THEREFORE  HAS NOT VIGOROUSLY PURSUED THIS TRANSFORMATION. THUS A DEFINITIVE ANSWER IS NOT AVAILABLE. THE INSTRUMENTATION TO BE AVAILABLE AT  WILL PERMIT PRECISE TRANSFORMATION WITH THE LIMITS EXPECTED TO BE DICTATED BY THE GEOMETRY OF THE PAN FORMAT.

25X1

25X1

**TOP SECRET**

25X1

**TOP SECRET**Excluded from automatic  
downgrading and  
declassification